

Region 9 Enforcement Division 75 Hawthorne Street San Francisco, CA 94105

Inspection Date(s):	August 22, 2019		
Time:	Entry: 7:45 am Exit: 2:30 pm		
Media:	Water		
Regulatory Program(s)	Clean Water Act NPDES		
Company Name:	Dos Cuadras Offshore Resources, LLC (DCOR)		
Facility or Site Name:	Platform Habitat		
Facility/Site Physical	Platform Gilda, Santa Barbara Channel, Pacific Ocean		
Location:	Lease OCS-P-0216		
Geographic Coordinates:	34°10'56.42"N, 119°25'6.83"W		
Mailing address:	290 Maple Court, Suite 290		
_	Ventura, CA 93003		
Facility/Site Contact:	Jay Rao		Title: Environmental Engineer
	Phone : 805-53	35-2078	Email: jrao@dcorllc.com
Facility/Site Identifier:	NPDES Permits CAG280000 and CAF001152		
NAICS:	211111 - Crude petroleum and natural gas extraction		
SIC:	1311		
Facility/Site Personnel Participating in Inspection:			
Name	Affiliation	Title	Email
Jay Rao	DCOR	Environmental	jrao@dcorllc.com
		Engineer	
Sean Smith	DCOR	Lead Operator	ssmith@dcorllc.com
EPA Inspector(s):			
Adam Howell	US EPA	Environmental Engineer	Howell.Adam@epa.gov
Michael Weiss	US EPA	Environmental Engineer	Weiss.Michael@epa.gov
Inspection Report Author:	Adam Howell		415-947-4248
			Date:
	Eric Magnan		415-947-4179
Supervisor Review:			Date:

SECTION I – INTRODUCTION

I.1 Purpose of the Inspection

On August 22, 2019, Adam Howell and Michael Weiss from the U.S. EPA Region 9 Enforcement Division (hereafter, we or inspection team) conducted a Clean Water Act (CWA) National Pollutant Discharge Elimination System (NPDES) inspection of the DCOR, LLC (DCOR or Discharger) – Platform Gilda (hereafter, Facility or Platform) offshore oil and gas platform. The purpose of the inspection was to evaluate compliance with the requirements of the EPA Region 9 NPDES Permit Nos. CAG280000 and CAF001152 (hereafter, Permit).

During the inspection we evaluated the accuracy and reliability of the Discharger's self-monitoring and reporting program and the Facility onsite generated waste streams, treatment processes, and discharges to the Pacific Ocean. The unannounced inspection (our original target was Gina, but we decided to go to Gilda instead while onboard the crew boat) consisted of two parts: a records review and a general Facility walk through. The onsite Facility Representatives were Jay Rao (Environmental Engineer, DCOR), and Sean Smith (Lead Operator). Upon arriving at the Platform on August 22, 2019, we met with the Facility Representatives, and presented our CWA credentials and explained the purpose of the inspection.

SECTION II – FACILITY / SITE DESCRIPTION

II.1 Facility Description

Platform Gilda is located in the Santa Barbara Channel and produces oil and gas from the Santa Clara Field (Lease OCS-P-0234). The Platform was first installed in January, 1981 and began production in December, 1981. Platform Gilda is approximately 8.8 miles from land, has 96 well slots, and is at a water depth of 205 feet. As of October 1, 2017, Platform Gilda had a cumulative oil production of 39,478,000 bbls (barrels) and cumulative gas production of 48,762,000 mcf (thousand cubic feet).

At the time of the inspection, the Facility was in "production" operations, actively recovering hydrocarbons from the field formation. A Facility Representative stated that at the time of the inspection, the following NPDES discharges occur or may occur from the Facility:

- Produced Water Discharge (Discharge 002)
- Deck Drainage (Discharge 004)
- Sanitary and Domestic Wastes (Discharge 005)
- Desalination Unit Wastes (Discharge 007)
- Fire Control System Water (Discharge 008)

II.2 Wastewater Sources

Note the discharge number (i.e., Discharge 002) referenced throughout this report refers to the type of wastewater discharged at the corresponding outfall point as designated in the Permit. A general description of the process train(s) for each of the above-mentioned discharges is described below:

Solution recovered from the formation by both Platform Gilda and Platform Gina goes through a separator where "sour" natural gas is captured. Sour natural gas goes through an "Amine" plant to strip out hydrogen sulfide. Natural gas is then sent through a pipeline (Photograph 1) to shore for sale. Gross production fluids are combined with those from Platform Gina and sent via a different pipeline to Mandalay Onshore Treatment Facility, where oil is separated out for sale and produced water is pumped back to Gilda for injection and discharge (Discharge 002).

Deck drainage (washdown, rainwater, drip pan and work area drains – Discharge 004) is collected throughout the platform via floor drains into a sump tank on the Subdeck. The top most platform level (Drill Deck) and next level (Production Deck) are enclosed with berms and floor trenches that flow to the sump tank on the Subdeck. Fluid in the sump tank is commingled with gross production fluid and piped to Mandalay Onshore Treatment Facility.

Sanitary Wastewater (Discharge 005) is treated onsite at the Facility with a redFox FoxPac environmental marine sanitation device (MSD) Model No. RF 2000-FP with serial No. 5384, which is United States Coast Guard (USCG) approved (Photograph 2). The treated water is discharged (Discharge 005) to the Pacific Ocean via a pipe (Photograph 2). The onsite Facility representatives stated that the daily discharge water flow rate is estimated based on the number of people on the platform and the time spent per person. The MSD unit is sized for a maximum of 2,000 gallons per day (gpd).

Desalination (i.e., reverse osmosis) unit wastewater (Discharge 007) is generated during the process of creating freshwater from saltwater. The desalination unit (Photograph 3) discharges directly to the Pacific Ocean via a pipe.

Fire control system water (seawater released during training, testing, and maintenance of fire protection equipment – Discharge 008) is composed of pure seawater. The Fire control water is discharged through pipes to the Pacific Ocean without treatment.

II.3 Wastewater Treatment

Sanitary wastewater (Discharge 005) is the only wastewater stream to be treated onsite at the Facility. Discharge 005 is treated via a redFox MSD (Photograph 1). The self-contained treatment system is composed of an aeration chamber, flocculation, solids settling, media filtration, and disinfection. The Platform chlorinates the treated effluent and checks the chlorine residual daily. The MSD is serviced annually by a contractor. The MSD was shutdown from January 2019 – June 2019 when the platform was unoccupied.

Domestic and Sanitary Wastes (Discharge 005), Footnote 2, of the Permit states "any facility which properly operates and maintains a marine sanitation device (MSD) that was certified by the United States Coast Guard (USCG) under Section 312 of the Act shall be deemed to be in

compliance with permit limitations for sanitary wastes and the requirements for total residual chlorine do not apply."

II.4 Produced Water Sampling

Produced water is sampled every 12 hours from the port shown in Photograph 4 and analyzed onsite for hydrogen sulfide and Oil & Grease concentrations. Hydrogen sulfide tests are performed with paper test strips. Oil & Grease samples are analyzed using a photospectrometer (Photograph 5). Produced water flows are calculated from pump capacity and run times.

II.5 Compliance History

Discharge Monitoring Reports (DMRs) reviewed by the inspection team indicated one reported effluent violation during the period of review (July 2016 through July 2019). In December 2017 the reported concentration of hydrogen sulfide in produced water discharge was 0.00146 mg/L, higher than the effluent limit of 0.00139mg/L. Discharge of produced water was reported every month during the period of review. Reported flow values add up to an average annual discharge below the permitted maximum allowable annual discharge of 25,500,000 bbls. All other sources of wastewater discharge (sanitary, desalination, and fire control system) were in compliance.

SECTION III – OBSERVATIONS

- The NPDES permit, daily reports, and DMRs were all well organized and readily available on an electronic share drive accessible on the Platform. Daily log sheets were clear, well kept, and easy to understand (Photograph 6).
- The platform had significant rust and corrosion.

SECTION IV - AREAS OF CONCERN

The presentation of areas of concern does not constitute a formal compliance determination or violation.

1. While a certain amount of rust and corrosion is to be expected in a harsh marine environment, the Facility should ensure that the corrosion does not negatively impact the operations or safety of the Platform or its ability to comply with the Clean Water Act.

APPENDICES

Appendix 1 – Photograph Log

The photographs were taken during the inspection by Michael Weiss using an Olympus Tough TG-5 Digital Camera. Original copies of the photos are maintained by EPA Region 9.



Photograph 1: Pipeline gallery.



Photograph 2: Marine Sanitation Device.



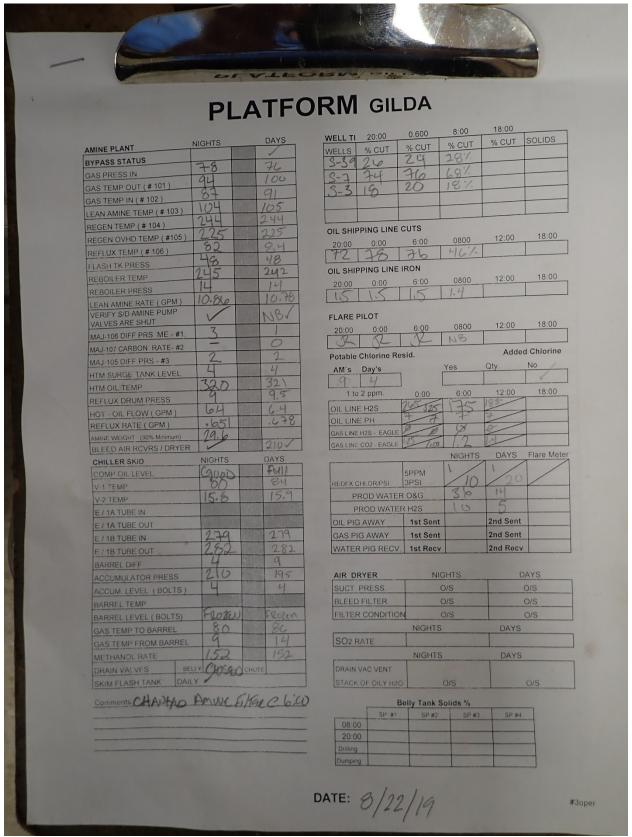
Photograph 3:RO unit.



Photograph 4:Sample port for produced water discharge.



Photograph 5 : Photospectrometer for measuring Oil & Grease.



Photograph 6: Daily log sheet.